

SEA POWER 21



*Projecting Decisive Joint
Capabilities*

THE CHALLENGE...

“We must take the battle to the enemy, disrupt his plans, and confront the worst threats before they emerge.”

**George W. Bush
01 June 2002**

“Our Navy is on the leading edge of this fight and...Sea Power 21 will help us fulfill the President’s direction.”

**ADM Vern Clark
12 June 2002**

Vision

Clear, concise, and powerful

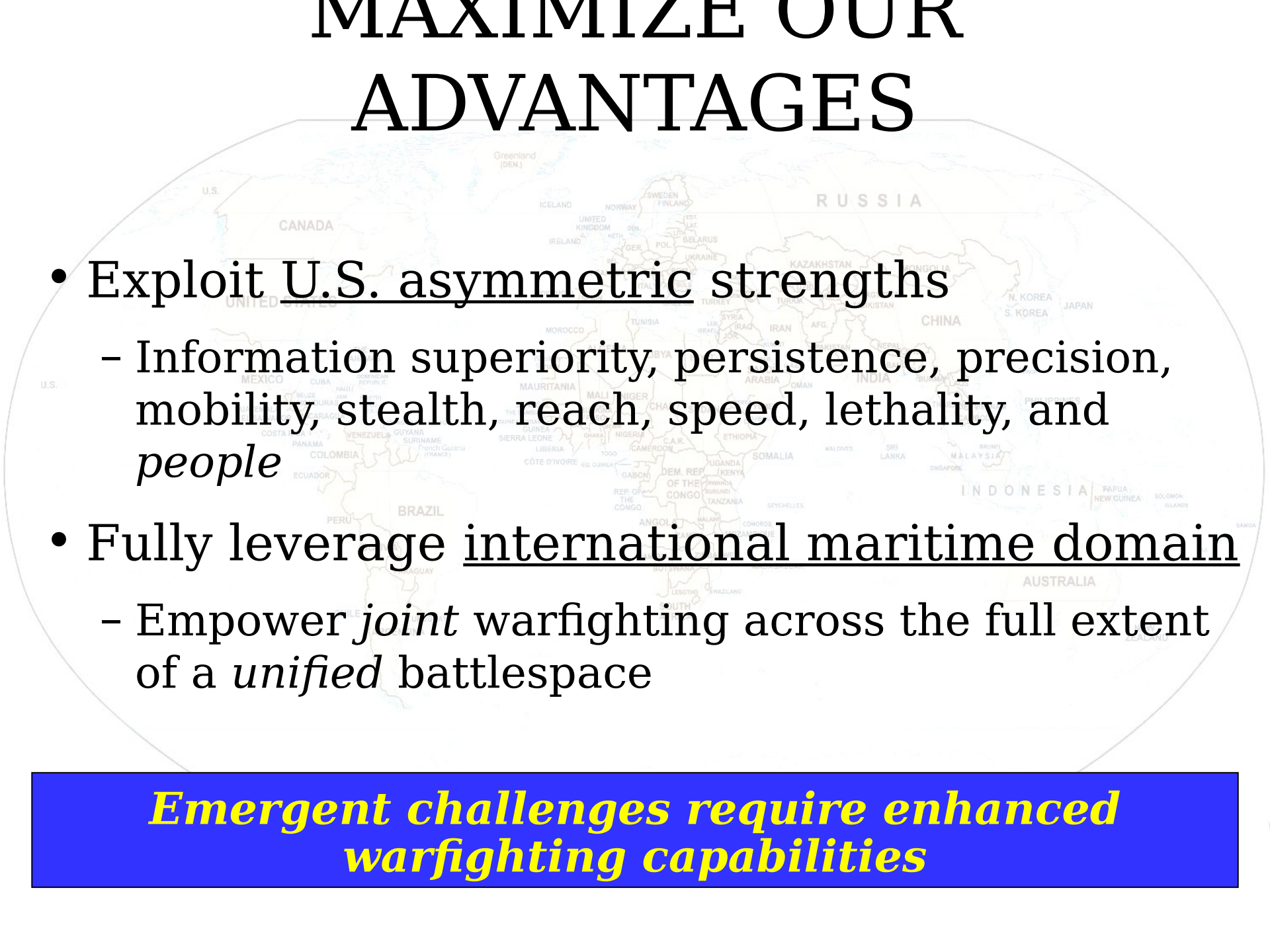
Innovation

A culture of innovation, experimentation, and

Jointness

Fully integrating naval forces into the joint

MAXIMIZE OUR ADVANTAGES

- 
- Exploit U.S. asymmetric strengths
 - Information superiority, persistence, precision, mobility, stealth, reach, speed, lethality, and *people*
 - Fully leverage international maritime domain
 - Empower *joint* warfighting across the full extent of a *unified* battlespace

Emergent challenges require enhanced warfighting capabilities

BROADENED STRATEGY

“Our strategy has shifted from a focus on a *global threat* to a focus on *regional challenges*...”

...From the Sea (1992)



“Enhancing security in today’s dynamic environment requires us to *expand* our strategic focus to include *both evolving regional challenges and transnational threats*.”

Sea Power 21 (2002)

June 2000

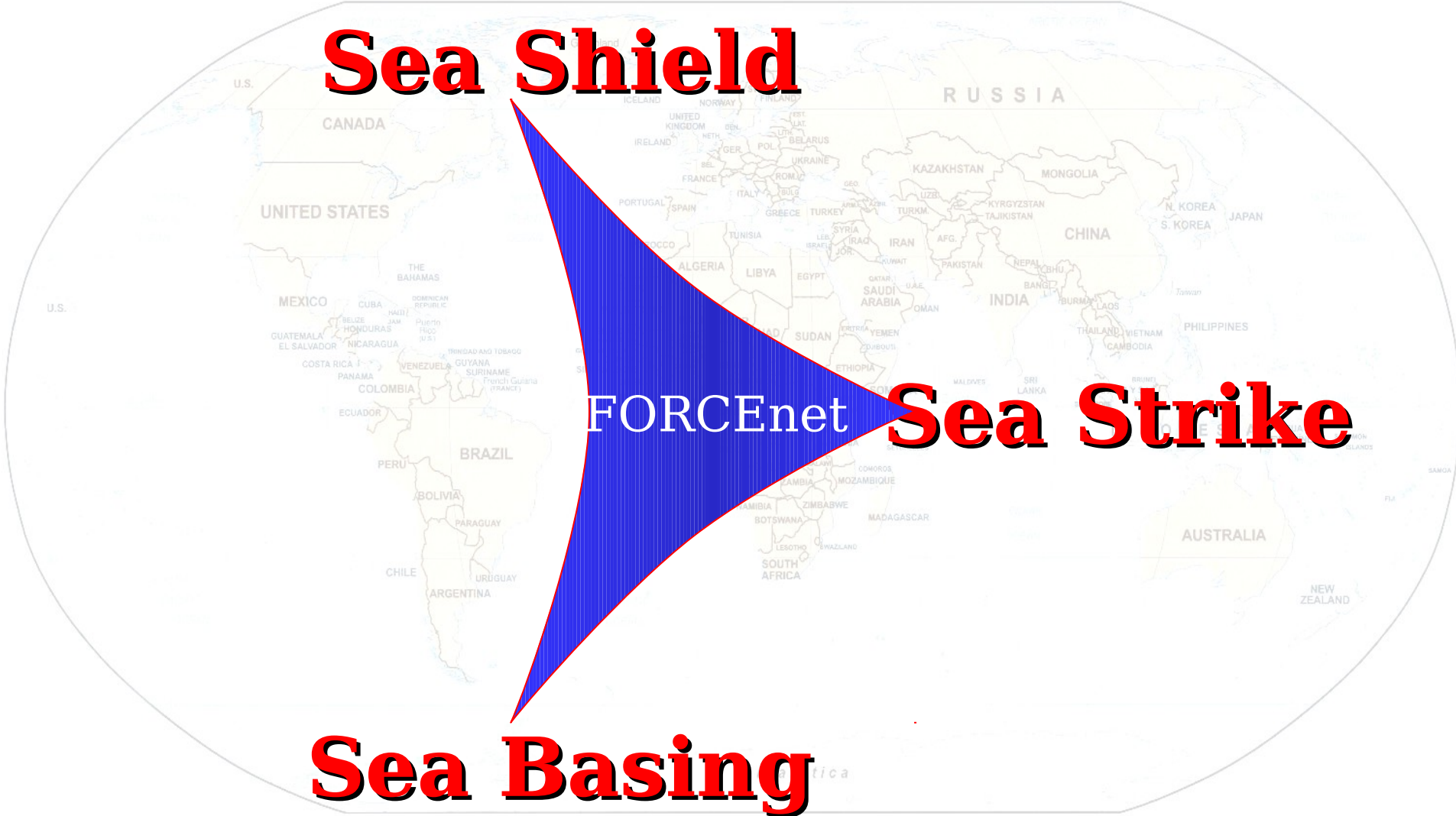
SEA POWER 21

Sea Shield

FORCEnet

Sea Strike

Sea Basing



SEA STRIKE

Projecting Offensive Power...
responsive, precise, and persistent

- **Dominant & decisive power from the international domain**
- **Focused Effects: Precision strike, information operations, fires, covert strike, Special Operations Forces, and Marines**
- **Enabled by networked Intelligence, Surveillance & Reconnaissance (ISR) for knowledge superiority**
- **Seize the initiative**
 - **Disrupt enemy timelines**
 - **Preempt adversary options**



Sea Strike

SEA STRIKE

Representative Investments



**Joint Strike
Fighter**



**Tactical
Tomahawk**



**Naval Fires
Network**



**F/A-18E/F
Super Hornet**



**Unmanned Aerial
Vehicles**



**Advanced Gun
System**



**MV-22
Osprey**

Capabilities

**Persistent Intelligence
Surveillance, and
Reconnaissance**

**Information
Operations**

Sea Strike

**Time Sensitive
Strike**

**Ship to Objective
Maneuver**

SEA STRIKE

Future Technologies

- **Autonomous, organic, long-dwell sensors**
- **Integrated national, theater, and force sensors**
- **Knowledge-enhancement systems**
- **Unmanned combat vehicles**
- **Hypersonic missiles**
- **Electro-magnetic rail guns**
- **Hyper-spectral imaging**



Sea Strike

SEA STRIKE

Action Steps

- **Accelerate information dominance via FORCEnet**
- **Develop, acquire, and integrate systems to increase combat reach, stealth, and lethality**
- **Distribute offensive striking capability throughout the entire force**
- **Deploy sea-based, long-dwell, manned and unmanned sensors**
- **Develop IO as a major warfare area**
- **Synergize with USMC transformation efforts**
- **Partner with the other services to accelerate Navy transformation**



Sea Strike

SEA SHIELD

Projecting Defensive Assurance...
assure allies, deter adversaries, sustain access

- **Project layered, defensive power -- globally**
- **Extend homeland security with networked intelligence & forward presence**
- **Sustain access via littoral dominance**
- **Protect joint forces and allies ashore**
 - **Extend defensive umbrella deep inland**
 - **Strengthen strategic stability**
 - **Provide operational security**



SEA SHIELD

Representative Investments

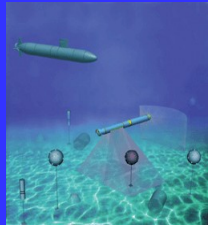
Capabilities



**F-22C Modernization
CEC**



**Missile Defense
ERAM**



**Organic Mine
Warfare Systems**



**Armed Helicopter
MH-60R/S**



Improved P-3



**Anti-Terrorism/
Force Protection**



**USCG Deepwater
Project**

Sea Shield

**Theater Air
and Missile
Defense**

**Sea/Littoral
Control**

**Homeland
Defense**

SEA SHIELD

Future Technologies

- **Interagency intelligence & communications reach-back systems**
- **Organic mine countermeasures**
- **Multi-sensor cargo inspection equipment**
- **Advanced hull forms & modular mission payloads**
- **Directed energy weapons**
- **Autonomous unmanned vehicles**
- **Common Undersea Picture**
- **Single Integrated Air Picture**
- **Distributed Weapons Coordination**



SEA SHIELD

Action Steps

- **Expand combat reach**
- **Deploy Theater Missile Defense as soon as possible**
- **Create Common Operational Pictures for air, surface, and subsurface forces**
- **Accelerate the development of sea-based unmanned vehicles to operate in every environment**
- **Invest in self-defense capabilities to ensure sea superiority**



SEA BASING

Projecting Operational Independence...
joint power from the sea

- **Sea-bases key joint warfighting capabilities**
 - **Offensive & defensive power projection**
 - **Command & control**
 - **Logistics**
- **Extends naval advantages to the joint team**
 - **Freedom of operations**
 - **Immediate employability**
 - **Increased security**
 - **Sustained access**
- **100% of the earth's surface as joint**



SEA BASING

Representative Investments

Capabilities



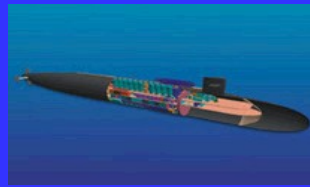
CVN(X)



DD(X)



Littoral Combat Ship



SSGN



High Speed Vessel



T-AKE



Maritime Prepositioning Force (Future)

Afloat Power Projection

Sea Basing

Command and Control

Logistics

SEA BASING

Future Technologies

- **Enhanced joint command and control**
- **Heavy equipment transfer capabilities**
- **Intra-theater high-speed sealift**
- **Improved vertical delivery methods**
- **Integrated joint logistics**
- **Rotational crewing infrastructure**
- **International data-sharing networks**



Sea Basing

SEA BASING

Action Steps

- **Exploit the advantages of sea-based forces wherever possible**
- **Develop technologies to enhance on-station time and minimize maintenance requirements**
- **Experiment with innovative employment concepts and platforms**
- **Challenge every assumption that results in shore basing of Navy capabilities**

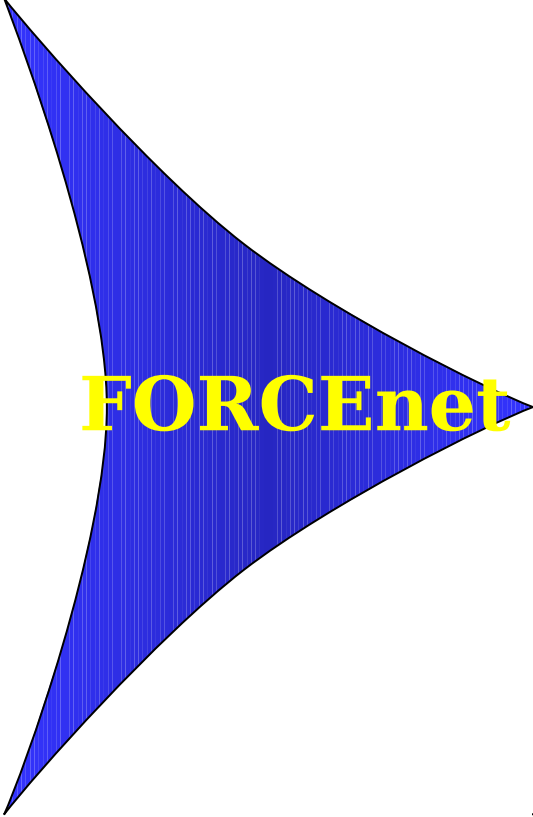


Sea Basing

FORCEnet

Integrating warriors, sensors, weapons, networks, and platforms

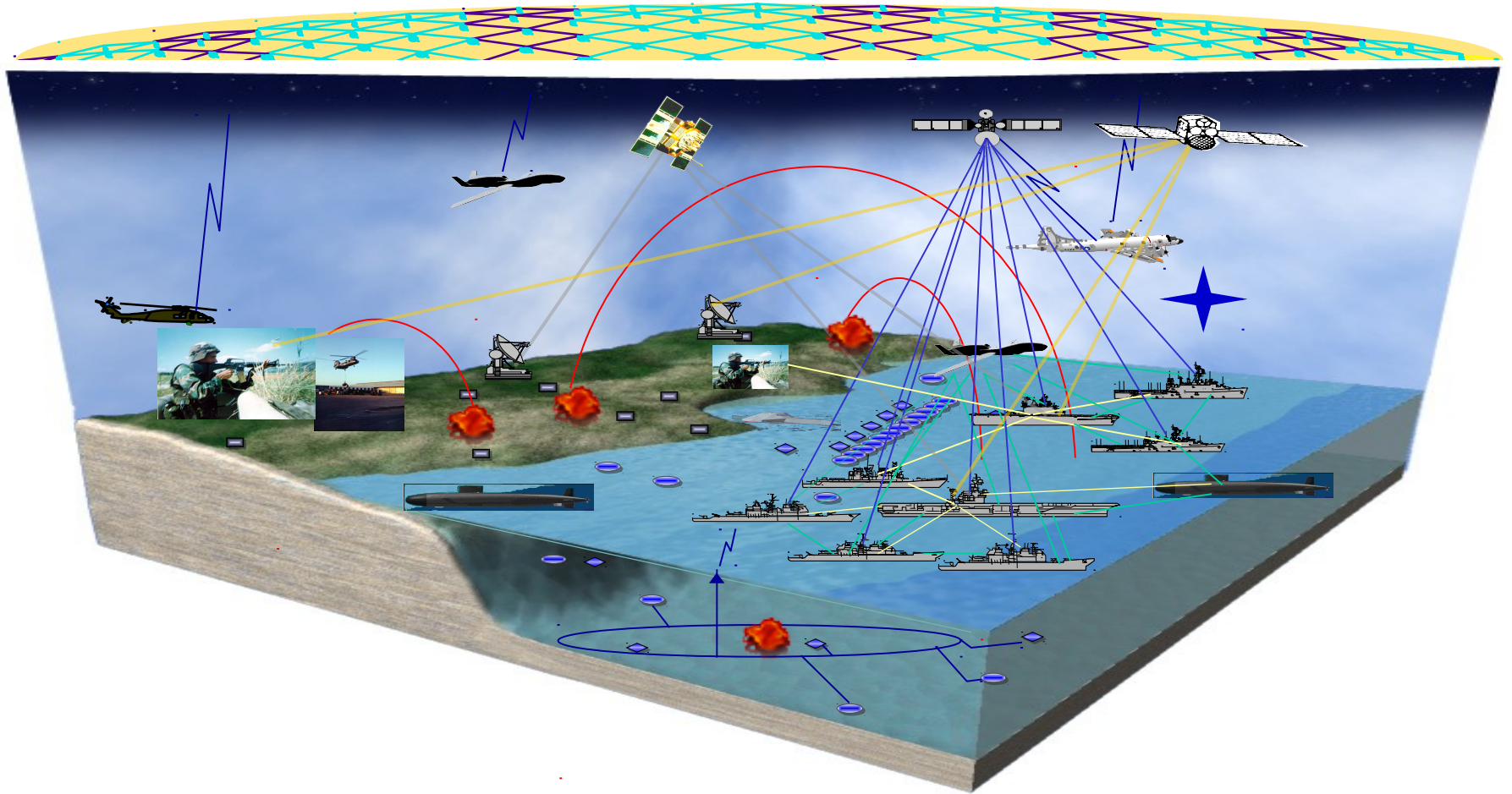
- **Framework for Info-Age Warfare**
- **Major increases in combat power by:**
 - **Connecting sensors, networks, weapons, command & control, platforms, and warriors**
 - **Accelerating speed and accuracy of decision**
 - **Integrating knowledge to dominate the battlespace**



FORCEnet

FORCEnet

Integrating sensors from seabed to space



*Integrates the power of
people, sensors, weapons, networks, and platforms*

TRANSFORMATIONAL IMPACT

Sea Strike

- **Double strike aim points** within 10 years
- **Continuous battlespace coverage** via long-dwell sensors
- **Agile targeting** via unmanned on-station vehicles
- **Enhanced strike** via Expeditionary Strike Groups

Sea Shield

- **Extended homeland defense** via forward deployed forces
- **Sustained access** with networked ships, submarines & aircraft
- **Projected air defense** over joint force and allies
- **Ballistic missile defense** over

Sea Basing

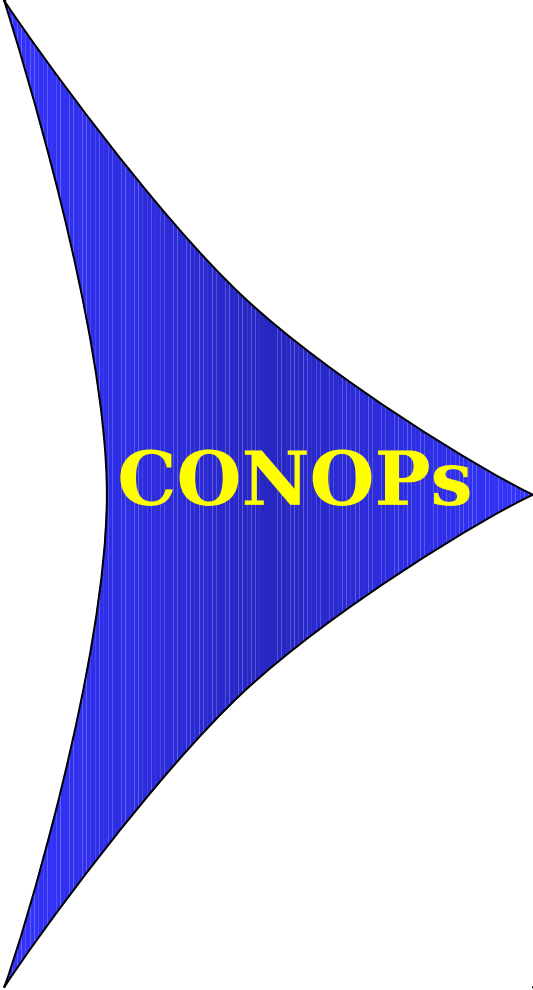
- **Offensive & defensive power projection--** unprecedented reach, accuracy, and lethality
- **Global connectivity** afloat for joint commanders
- **Accelerated deployment/employment**

**Fully integrating naval, land, and air forces
across a unified battlefield**

- **Focused logistics**

GLOBAL CONCEPT OF OPERATIONS

- Broadened Strategic Focus
 - Evolving Regional Challenges
 - Transnational Threats
- Leverages information superiority and enhanced striking power
 - Widely distributes, fully netted striking power to support joint operations
 - Increases presence, enhances flexibility, and improves responsiveness
 - Task-organized to deter forward



CONOPs

SEA POWER 21

Sea Shield

Sea Trial

Sea Warrior

Sea Enterprise

FORCEnet

Sea Strike

Sea Basing

Enabling Processes

SEA TRIAL

Continual Process of Innovation...

concept development, rapid prototyping, coordinated experimentation

- **Integrate concept and technology development**
 - **Defined ownership of concepts**
 - **Targeted wargames, experiments, and exercises**
 - **Focused developmental investment**
- **Fleet leadership**
 - **CFFC oversight**
 - **Fleet sponsors & co-sponsors**
 - **Spearhead elements to deploy & validate**
- **Enduring process of innovation to accelerate enhanced capabilities to**



Sea Trial

SEA WARRIOR

Investing in Sailors...

the right skills, in the right place, at the right time

- **Sailors are our capital asset**
 - **Foundation of warfighting effectiveness**
 - **Life-long investment**
- **Achieve combat-ready Total Force**
 - **Enhanced recruiting**
 - **Innovative training**
 - **Optimal employment**
- **Realize full potential of all-volunteer force**
 - **Highly skilled**
 - **Continuously educated**
 - **Powerfully motivated**



Sea Warrior

SEA ENTERPRISE

Resourcing Tomorrow's Fleet...

optimum resource allocation, increased productivity, enhanced procurement

- **Identify & harvest efficiencies**
 - **Divest non-core functions**
 - **Organizational streamlining**
 - **Manpower reduction through technology insertion and process alignment**
- **Fund future readiness**
 - **Enhanced investment in warfighting capability**
 - **Accelerate transformation**
- **Inculcate culture of productivity**



Sea Enterprise

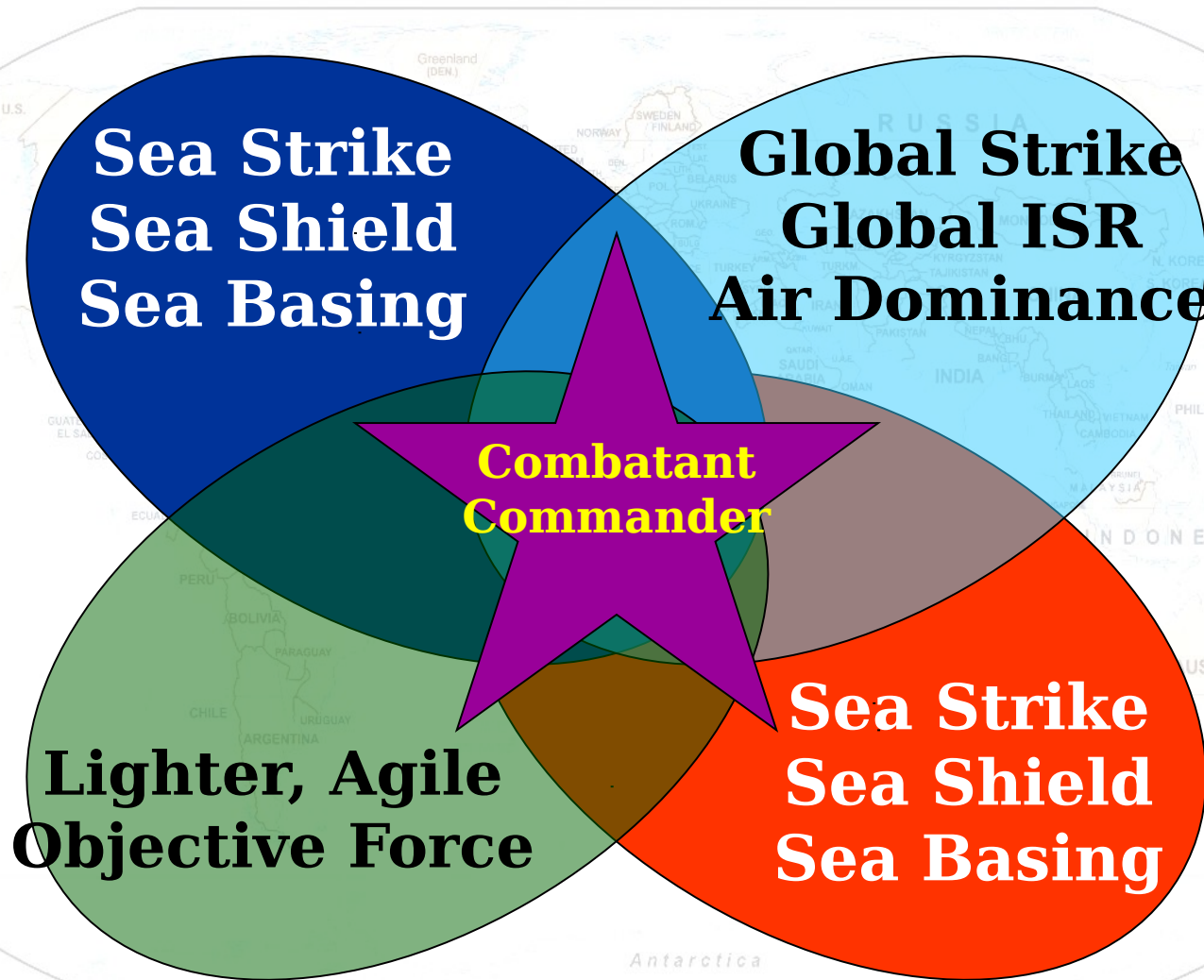
DPG TRANSFORMATION GOALS

	Sea Strike	Sea Shield	Sea Basing
1. Protect U.S. homeland and bases overseas	✓	✓	✓
2. Project and sustain power in distant theaters	✓	✓	✓
3. Deny enemy sanctuaries	✓		✓
4. Protect information networks from attack	✓	✓	✓
5. Use information technology to link U.S. forces to fight jointly	✓	✓	✓
6. Protect space capabilities from enemy attack		✓	✓

1-4-2-1 STRATEGY

	Sea Strike	Sea Shield	Sea Basing
Homeland Defense	✓	✓	✓
Deter in <i>four</i> critical regions	✓	✓	✓
Swiftly defeat <i>two</i> aggressors	✓	✓	✓
Win decisively in <i>one</i> conflict	✓	✓	✓

COMPLEMENTARY JOINT CONCEPTS



THE CHALLENGE...



**“Our security will
require transforming
the military ... (to) be
ready to strike at a
moment’s notice in
any dark corner of
the world.”**

**George W. Bush
01 June 2002**

Sea Power 21

America

**...more Power,
...more Protection,
...more Freedom for**

SEA POWER 21

Sea Shield

Sea Trial

Sea Warrior

Sea Enterprise

FORCEnet

Sea Strike

Sea Basing

